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7. R. Forzberg Collection 1900 (x 427 31783-32467 Collection and Field Note Book

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(February 20, 1990 - April 9, 1990)

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Collection and Field Note Book

No. 27

(February 24, 1950 - April 9, 1950) (31783 - 32467)

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Laipan 2 1950 Marianas 1 Feb. 24 - Hagman Point, good patch of undisturbed east coast. forest extends down of limestone cliff cliff to a bench that is de neely frested. Cliffe that below this have Pemphis. 31783 gossyfrium along top of cliff suffratercent herb, much branched, Im. tall, flowers cream turning red. 1 84 Balaniella fleshy braits pale rare in frest, under friner, flowers dull rose-purple, tuber buff. By Cynometra, alyxia, etc. not evident which was host. 85 Excavatio manamensis tree 5 m. tall; blower white, fruit orange, fleshy. common tree in frest 86 Pisonia grandis large; flower green. occasional tree in frest 87 Phaseolus vine, put bleve black open frels 88 alyxia go common in frest asplenium rare in well cavity at top of. cliff, very dry, wilted when prihed serambling vine; blowers, pale green. 4 & 39 Deeringia amaranthoides common around edges of 291 Ficus low, wind-beaten shoul.
with a erial roots; figs whilish, when soft. common at edge of cliff low shoul, bare of leaves. 3 & 92 Ficus one plant with # 31791 erect herb , m. talf. > = 93 / numbetta small colony seen in care

4 1958 Lailian 7 eb. 24 - Laulan Katan roadside in care fiely vine tangled over everything; 31794 Phaseolus established, lange warny Clowers bright lavender. extensive vine; flowers 12 95 95 ftrongylodon? deel maron purple. common in open on was rodes herl; flower yellow 96 Hibissur abelmoselms L. with maron center. local in open welly field (Joynia tomistalia) between Tel. ve Puntan Laulankatan rough disserted coral taller thickets and edge 30m. rock near colge of cliff of ceiff. suffrutereent herb; flower 97 Gossyfrium cream white, turning red. in open, near edge of thickets, on rough limestone. ving scrambling 98 flagellaring indica through bushes fruit green. occasional in thickely 99 gossyfrium thickets on rough timestone flower cream white, turning red spreading, much transfel, metal. Low shoul im tall tagles, 31800 alyxia At in low brush near edge of clif low herb, erect. 01 Carria or Stenotaphingen minanthum tun prostrate tup to, almost. local on rough coral roch in caevices and cavities low shoul, fruit bright 03 Eugenia paliembio (Men) common in low brush on rough and near edge of cliff sterile. small colony in roughtimes

6 1950 Laifran 60 m. V Feb. 24 - Chacha (nean Kagman air Field) roadside in abandoned rugar came fields white; fruits pendent. 31805 ferbaning grandiflery common along roadside 06 gossyfrium helbaceum

8 1950 Rota Feb. 25 - Longsong village weed around dwellings small tufts 431807 Chloris nadiata 08 Cypenia - sports spreading tuft, 09. Eragrostis pilosa common great liana, tangled and festorning trees. ; 10 Mueuna gigantea common in thishets Teb. 25 - 1/2 mi south of thickets and openings, the 11 Pyrhosia. abandant on trunk of breadfruit tree. trifts, culms erect. 12 Aprobalus greasional along wad tough vine climbing 13 flagellaria indica occasional in thickets through the bushes. flowers whitish. trees up to 6 m. tall, 14 Moringa aleigera flowers white. common is abandoned plantation

10 Teb. 25 - south of thenapany (airstrip) flats with thin soil on THE coral substratum, covered with second-growth thickets. 31815 alfinia speciosa around old dwelling. site 16 Cassia leschenaultiana local around old dwelling site in shade. 17 Cassia tora . rare around old dwelling rite 18 Derris elliptica rare around old dwelling site 19 Pennisetum purpureum common on abandoned cultivated ground 20 l'ersea américana planted around old dwellingsite 21 Caesalpinia major (Medic) Excle Dandy is thickets 22 allophyllus rare in thicket 23 alyxia common in thickets 24 Phyllanthus occasional in thickets

herb & m. tall, calyx waxy, white tipped with red, stamined yellow lined with ned within erect herb , m. tall, blowers yellow herb 1 m. tall, flowers yellow.

sterile vine, leaves green above glavious beneath. forming large thickets 2-3 m. deels.

tree 10 m. tall, sterile, leaves dark green above, glaveous beneath, no conspicuous oda. vine tangled in small trees. should I m. tall.

vine tangles among busher, freit blue black, erect sparsely branches should Im, tolf.

1, 1859 Boerlagiodendon mariamens

7eb. 27 - slopes above

sloper of volcanic soil copped by clift of coral consisted limestony, with occasional cimestony remnants or boulder part way down; slopes traversed by gullies, many of which have

60 forghum hale peuse somall fratch seen, very rare on island.

on on volcanic soil along trail

or Phragmiles karling and a dorning water water war slopes otherwise dorninated by Miscanthus.

13 Cyctosperma cliamissonio few plant, in mud in na vine tottom

occasional at edge of eno

thick reacely aromatic when the hear from tolarle and, ataminath form dull

This area is seriously eroded 120 there of the being common.
There appears to be more eroses in 1841.

tangled mass of culms (on taipan called "german grass because introduced as horse feed by germans; serious pest). This orne prostrate, builed.

past fruiting.

ComerKasi: (Hass K.) schott at. 8 HN: alsa (US) 6/1998

flower yellow.

1950 Rota 22 Callica fra candicans on limestone outerof, with feaevola frutescens. 64 Hedystis factida var. on limestone outerof 67 Desmodium umbellatum near enoded place 68 Dryspleris on coral limesters orderofi 19 ruphorbia occasional, adge of croded place 10 Villaria on fallen log in raving 11 tieus tindloria on limestone outcrop 72 Trema cannaling 8 in cleaning in ravine bottom on limestone outer b 74 Optismenes Compositus oreasional in mount , avenue 75 Dryopteria lare in wrist raving 76 Openculina sombellate ventucosa one large fratch seen in broad wet raving. 77 Pripa bette elimbing up oweh in naving 78 Hernandia labyrinth scor Tuyona common in wooded raver 79 allynium ded in varine

shrub o.s.m. tall, flowers white, shrub im. tall, its rie.

shipons frontrate, bries. erect; fle, white

should tree, leave, green, beneath; bruit marion.

should, bany an light;

figs green.

prostrate

and closely branched.

catensins wins; & lower subity
and here coiled.

betel shewing.

tree 10 m. talf, of lowers whitis
fruits on ground baneath.

This one thick, erect.

1950 Roly 24 Cantharospermum xcarabaevides occasional award crodel yet 81 Emilia - souchipolis (L) occasion in evoled place. and in trail. XI Setari, rank in trail 83 Desmodium hiflorum commen on draw earth 84 / francea totaquating abundant in wet mud in naving bottom. 85 Physalis lanceibolia hees rare, in navino bottom 86 Jussaca erecta common in muddy places in ravine bottoms of Hypotis capitata common geneally in opening in miceathus th taxxo race along trail 89 Crotalaria mucronata Desr. common locally

langled gray vins. o Cowers purple producte; steril pupili in center, white at edge of limb. flower yellow. to herby in tal. flower creet herb. flowers yellow, lined well

1950 Rota 26 tel. 27 - Alope, west of as malote cultivated field and don- yard, is on level shelf black soil. 31290 Helistropium indicum L. common in doory and 91 Paspalum conjugatum common a siend more spot in drong and 92 Hyptis even mon weed 93 Dactyloclasium agyptium common in road and cultivated 94 Delichos lablab L. all the source cultivated 95 Conchrus brownin R. 45. common generally 96 Portulaca oteracea L. common on in cultivatel ground 97 Digitaria viliaris occasional in cultivated ground 98 Eypenis notundus L. common in outtoaled ground 99 Brechavia diffusa occasional in cultivalegground 31900 Cucurbita maxing 01 Phyllanthus menis schem. & Th. Melster common in cultivated ground 02 Maranta arundinacea L. cultivated

herb, m. tall aromatic,

spreading terfts.

prostrate, bleshy; flowers
yellow, up to 1 cm, across,
astamens 9-14, style branchers:
cul me assending; seaves
contemporate glaveour.

ving; flowers lavender

prostrate leaves white protest deaves fortes with gray; flowers crange.

tuber, white, tasteless.

1950 Rola 28 31903 Lida rhombifolia L. common weed in cultivated ground 04 Malvastrum erromandelianum common weed in authoriteforer 05 fynedrella modiflora L. com mon weed in cultisted ground. Ob amaranthus spinosus L. common weed generally 07 Wrachis hypogaea L. cultivated 08 Lidgacuta common wood generally common in cultivated ground 10 15 idens pelo sa L. occasional generally 11 ruphorbia hirta L. corn mon weed generally Centrosema pubescens Benth. rare in cultivated ground 13 ageratum congroides L. common wood generally 14 Celipta alba(L.) common weed in cultivated ground 15 Commeling benghalensis occasional in cultivated ground 16 Minosa invisa Mart. abundant in this one locality, covering large areas of ground to ceclusion of other plants

evert; leaves gray, flowers orange. erect, flowers mange. erect; flower yellow. erect branched beth. veins white, prostrate, flower crangeyellow, brancher and leavez appearing distrehous. -blue violet. erect; dish yellow, rays whitish, very small. head, greenich white. prost ate flowers white. prostrate prostrate extensively serambling, forming a deep mat; flowers huple leave somewhat sensitive, but not extremely so.

according to my memory the regetation of Rota has changed very little einer 1946.

increased around the village and a owny

The old willage site on

has taken it over! fuch cultivated things as graptofhyllun,

well established in the

persist in healthy condition have become prominent in many places on the middle

these from before.

no soil, are still covered by Ipornovea congesta and Passiflora frelida, with

Conga bonariensis is common near one edge of the

Leucaena glanca has

the airport.

the north side has been

abandoned and vigetation

I senderanthemum, etc. are

vegetation.

I Cantations of agave sisaland Moringa deifert, etc.

Vatcher of young Carnaring

teraces. I don't remember

The coral flats a owned the air strip, will almost

scattered melochis bushes.

air strip (not collected).

Mar. 1 - B. Bench between Puter Nagman and Puntan Laulan Katan I rimary forest, an even height type about 10:15 m. talf mixed Eyrorneting and barring loving as. dominating locally, abundant seedlings in their own shall. O'Alemin the principal undergrowth is of tangled wines of Cetyria. secondary tree species are guarnia, mela volepia, jivil. Pandany tet idia exch Fices, Engthing (Locally Pandances tectorius, P. dubius (locally pure stands) foutering, Laportea, Visoria grandes, etc. Recordary undergrowth species an Flagellane. Vsychotria mariannini The terrain is a series of linestone benches with wough wer in places, with black sorlin large a small porchets, pH 7.5 or higher

aisfact quous lower but doer not change much in composition toward seaward edge. a pour strand speciel - Bilinia, Callecarfra, Desmodium umbellation, etc. some in in rocky sports. Trees and also smaller in Lian, seaward. If is possibly the same a succession leading from & cliff brush to Himany board about 0.5 in. Vines - alyxia, pornoca tuba, flagellaria, farminum simpl. Only 3 ferns seen indeethere on rock elififs above Greet - Pyrhosia, Polyhod. scol. + alplenium carid ??

1950 Laipan 40 may. 1 Tuntan Hagman firest at top of cliffe - he il m. talf, fuit 31933 Lolanum guariense Merr. around old military camp. ground; of lowers malon. 34 canavalia megalantha Men. freet, on ground, - stiff; fruit green. 35 Canthium odoralum van tiniarens rare at edge of frest.

42 1950 Guam Mar. 3- agaña 31936 Ipomoea 2 roadside

Point Point rather broken forest seriously damaged by the typhoon, extending from inland, north of Mr. Lanta Rosa to the edge of the cliff- down the Cliff and outs the sourted strip, on limestone soil, in just on rough raised limestone.

occasional on plateauen undergroots

37 Reteris tripartita nare on ground on plateau 38 Piperguahumense

39 Pepermin on who of cliff

4 40 asplenium on with of cliff

41 Hedysti, bifling in cleaning, at fost of cliff.

flower purple.

Pandanus dubius & tectorius, aglaig, quetlanda speciosas. Cynemetra Classcylon, etc. mixes on top of etc. mixes on top of on cliff lichiacarpui becomes dominant. Undergrowth langely Triphasia.

should I m. Ealf staminate shihe, white, cerest fruiting ones gree, convingolown.

stems ered to ascending

 50 Palan Is.

March 3 - of ngainid,

around old temple grounds

31944 Rindernia

weed in yard

4 45 Polyseias quilfoylei

planted

64 1950 Pacan

march 10 Files fantactic Chinese paintings, in colors that scarely seen possible, groups of tall almost Jothic island lie scattered in the enormous Palan Cagon. The lagron varies from deep agramains through bottle green, tunguris, yellow green, bright blueof veen, and yellow. Kare nellow sand beaches have feathery i morrood on them. The islands are bright green, which resolves itself-into a mosair of different greens when seen close by, with gray cliffs here and there. Cong vary from gent into dome tipe peals, hundreds of feet brigh, down to ting sugar loages, or haystacher, all are eaten under at the pages by the sea in a nortely so regular that it seems to have been carried out artificially. The small haystack island, seem to have been eaten beneath ly cattle, leaving a

angan 71 1950 Palan 70 they one cred, toloniferous fronts ascending to erest. 31998 nephrolepis abundant in friest floor gg. March 10 - south part of west side of island thickets and was to place. large banyantyly try. 3 99 frans tota near dwelling, possibly planted e est; leaves purple 32000 Rhoes dissold strathacea be neath, bracks established in waste land purple, flowers white, 3 parted. "strangler" sending Of fixus tinstoria Conteria tra wolf down a wunt trunk of host; sterile. or stack y tarphety formaicensis spreading herby much bedusted, leaves graying green, & Cowers vacant lot. violet. small tree a large shouly 03 Randia cochinchinensis 3 m. tall; flowers white, nat in this hets fragrant; fruit immature. gurumas leaves dried and justed for tea. Can be used green, but better died.

Pelilin 1950 Palan sherb 2 m tall (others seen talled, flowers prints. occasional in undergrowth in rather open woods flowers white. 12 Clarodendrum common le cally in edges of words yellow, fruit pale green. 13 y Cochidion common in wood 2 March 10 - near air strip, 14 Conga Conariensis east, plowers white. common locally shoul 1.5 m. tall, 15 Pluchea states et garolinensis budinly. uncommon

1950 Palan Unilethapel 77 76 march 12 - fouth end of Unisthapel, where road goes up to lighthouse Confine of crushed limestone pies. immalure! 72016 Calophyllum inophyllum not seen except on pues 17 timbristylis naie in grass on 18 Denis tripoliata prostrate, langled; tangle on surface flowers findish white erest 0.6 m. tall, leave 19 Stackytayleta viticaepolis rail on rugor, flowersdeep purple cliffy of Icopal Hirtertone 10 tricistitudoris should 2 m. tall yo Maesa common near base of flowers white, freet white when rike. diff on free differ of cord limestone large struct branche 21 Ficus tinctoria serdral m. long, tangled with and partly strangling wote covering cliff; upe fruit droffing another species of frees i dull, rather pale yellow. 24 Callicages stender struct in crevie well up on cliff tree & m. tall, spreading; 13 Frenz occurrenal steril. 24 repenther mirabilis vine-like; aceme aleast. jutchers with many dead ants. climbing on other oregetation shrubrand amall trees, 25 Eugenia abundant just above bendest; fruit orange.

Untitleager 1950 Palan 79 78 Maytemus palanica (Loesn.) Fost. pendent strul, 32026 gyrnnsofinia Cower branches brilles com mon furtalne wale by salt water. 27 Enhalus steril. occasional in water 1 - vm. day in dense wet forest on * rough elevated coral limestone. wand is second- growth of Pipturus and Macaranga · leaves palling-beneath;. flowers white. , occasional in road, in shade fleshy, prostrate to 29 Pilea microphylla \$830 tratyth maranage "assending. small triel. (03) macaranga seems drang one of dominants in secondary frest along old road small tree 5 m. tal. 32 l'iptures aigenteur donnieur in secondary frest along old road distas part erect, 1 m. tal. 33 Ischaemun almost frue stand for ming deels mat in old cleaning on level spot y unde prendent 34 Dryopteris common on banks above wad fruit white frends west, stizzme prostrate 35 Callicagra rare in woods along was 76 Dayofiteris cirnmon along old wood

undillaper 81 1950 Palay 80 rliezeros e ect, - Gronds 32037 Ochymium according (piece, with, cornmon along road same letter belong together) show m. talf; flowere 38 Morinda Cati Cracteata occasional in forest in white, with antarget white calge Cobe, this thin places persecting on immature fuit. around lighthouse 39 melochia freah, cleaning rediction, pink distally common locally in secondary regetation hard, of lowers neddish 2 .40 Decreció (a Cuchtites) rade ingrais Cransuphalum alpidendes Kod. roll 12, fran roll H.

Koror 1990 Palare 83 82 March, 3' Pacifix Was Memorial (saidly lighting to have better injuly him borney) grounds garden around buildings small trees m. tall; 32041 Oftochiolion yr Evolia micronesica Kaneh. & Hatus. flowers yellow, fruit green. treg 5 mitalf; plowers white fruit white planted (n.) near building when ripe, mostly immature. 43 l'ithe cellobium dule tree 4 m. tall; flowers Whanted (?) near building whitish. amall tree 5 m. tall; 44 morinda citifolia L common in second growth -leaver glossy; flowers white; rife syndarps white thicket, prostrate, purplish. 45 Einformathymisolia in cracks in concrete wall caespitor 46 Cypenes inthin soil on old con concrete prayon small tuft, culms 47 Sporbolus diander ascending, praniet branches common about queden - Il reading. 48 Zoysia terrifolis varning dense soft allundant ground erre everywhere culms assecrating & ercel. 49 Cenchrus echinala race, along trail 50 Cyperus berifolin. -heads green - are in grais - small tree 6 m. tall, (-uf) 31 Leucaena glanca to 12 m.), of Cowers whate. Locally dominant in wood used for construction thickete and patches of arrows purfresses, said not & be very durable. Terile, O. 5 m. tall, fronds shreading Tr Cycar revoluter cult

Know 86 1950 Palan 3766" Popurair mueronala "hobosus" used promoted up, juice mixed with committed for frains in difficult beathing "ligarbathao" issed for 3 65 Davallia artila difficult breathing compounded with water with "hoborus 66 b " delbilis Klein ex Willa. " " 1965 uhaldathili said & by used as medicine, boiley used as drinks for some heads 67 averskoa belembe 1. no an 68 Polypodium scolopendria alo Cor W - the 12 to 1/2 -- CL porcended with from flockiding, poined in maning "isabial" tubers & leaves from ded together, weed for work, strained tooker from merer reli. "wordsa" said to be made 71 Frens adminto evits ever met and le sugar. July young buch

PLANTS OF THE CAROLINE ISLANDS

PALAU GROUP

Polypocium scolependria

Locality Koror Island (Merubeled)

Occurrence
disturbed and second growth vegetation

Coll. F. R. Fosberg No. 32068

Remarks (Brought in by informant, Alkong, as voucher jonnoralese) for ethnebotanic information.)

Pacific Vegetation Project

88

90 1950 Palan 2089 Terminalia catapha \$ 10 90 aventors warmbally 4 91 Codineum varregatum

6 92 Hibisons tiliscens

4 93 Denis elliptico

5 94 Passifling foetide v. hispide

2 95 Denistrifoliata 2 96 Antrophyum - 97 Eugenia

4 98 Pessifling gradrangulario

y 01 altophyllus

4 02 (2 reguiera!

5 03 aviennes

04 Dolichandrone spatheres

of Codialum variegatum

Korn - nyanakeleang 93 1950 Palan 92 Eurose"/ Johanes) 32107 Hibiseus (byerid. "ng bithil" of mangifers indies by 10 artosapus altilis b 11 Kintang camara L. ngietle!" "mader" fruit enten no native name, brought by paperent flowers fine, "towiel" used for thatch 12 nipa puticans 1. " for house ngwore bene fins B fiers " in carrier cluster, enter "flowers yellow "Ingram!" spleasant oly 7 14 Cassia occidentalis 5 15 March 15 - around old Japanese seaplane base west side ngarakaberang). lowland thickets and open places strub & m. tall. 37116 Thoghania strobiliting common in roadside thickets puplish. 17 Desmodium commen on weedy roadid March 15 - south side of western peninsula of ngarabraberang). orpen stoppes, cleaned and in places recently burned, surrounded by thickets and pal of four.

ngarababasang 1950 Palan 32118 Callicarpa 5 accasional in thishets slender shrub, \$ 1-3 m. tall, flowers and print light purple. a' 19 Hedyotis common in open ground erect shrules Im. tall, single main stem, leafless below; for leaves yellow-green; flowers fall lavender. no alstoning occasional in edges of forest strub 7.3 m. tall, lactiferous; flowers gibbous at base. shrub 2,5 m. tall, leave 24 Celtis edge of words, ran, glossy above; fruits green, one or two turning purple. shrub 1 m. tall. 72 Phyllanthus pilariessis Hosel edges of thickets tall herb, flower miling 24 Decaspermum fruticosum ripe puits crimson. shribs 2 m tall, corollar pinkish white, common in thickets and 4 1259, mallotus in thuckets and stamens purple. should 1-2 m, tall, of flower yellow. burned over ground small dense trifts; paricles purplish. bal, recently burned over steep-slope, with Un soil. tubers eaten. "chubschuf" 1 28 Tacca leontopetaloides open stoper

ngaralealerang 1950 Palan 99 98 37138 melastona malabathieun common den open slopes Thograngian strobilities should 1.5° m. tall

Mar. 17 - on east side of m. w. Penensula of Writh thate is an over of sleep slopes from basal cliffs up part to all the way covered by an even seemd growth with Polypoolium scolop. ground civer, tree 5 m. Kesult of burning oil n water mar. 24, 1944 obviously bruned off. veg. within influence of oil fine, but did not exceed. Part. a half km. of court affected reached tots of ridge in 2 - 3 - belace. gives a smooth light ger applacance from a distance in contract to rough many shaded appearance of undis.

Corner of cliff vely no side Casuarina, Pempehris, Scarevola Bilitria, Fiens 24 Pandanns text. allophyllus, Porgacias, Congenia, Guettanda, Fonteria Finbristylis connosa, Hedyotis albritania primis quandis is rose

Unitethapel 103 102 1950 Palan march 17 - small crater-like entany & lake. island n. of unulsthapel plan 32166 Change were ride to South firmestine cliffs maliff 72/40 Fiers limestone March 17 - Deside of southwest cat, porte peninsula of Untilhapel on labels and an catalogue near old Cultured Pearl establishment cards as encountered. on steel rough rock consacra slopes, of densely worded Early fruit. . 41 Proces pedunculata vine tangled in undergrowth, · tal, 43 treus ? aving occusional in woods Gi pretiole, 44 Dissocalys? common in undergrowth inhist, 15 asplenium - common in with creating & prochet, red. on eliff, above sea remissandent shoul, 47 Xylvand in forest on redge rarely flowering. shrub 1 m. tall; 48 Payshotia in frest in steel slope fruit red. on flat just above beach and at top of beach 49 Canavalia cathatica Thomas strong berbaceous vine, clambing in trees, of Courai magenty. shrub i m. tall, flower 50 alloghyllus white, fruit green. common at top of beaut

Nov 20141 50 82166 change was rich to South on labels and on catalogue cards as encountered.

Unulithapel 1950 Palan 103 102 march 17 - moll crater-like entany I lake. island m. of unulsthapel limestone cliffs should pendent from cliff. 72140 Fiers and small mangrovering March 17 - Daside of southwest generally of Unitchafel near orld Cultures Pearl establishment in on steep rough noch I bleshy stem, uniaceous leave, white fleshy fruit. sløfer, for densely wooded . "Il Prozris pedunculata leaves flestry vine tangled in undergrowth small tree 8 m. tall, 43 treus? orcusional in woods bude just appearing 44 Dissocalyx? common in undergrowth shub 3 m. talf pretiole, red; flawers frinkrist. 45 asplenium common in with creville & portet "totel", fruit red. on eliff, above sea remissandent shoul, 4) Xyloring in forest on reday rarely flowering. shub 1 m. tall; 48 Poychotria in frest in steep slope fruit red. on flat just above beach and at top of beach 49 Canavalia cathatica Thomas strong berbaccous ving, climbing is trees, flower shrub i m. tall, flower 50 alloghyllus white, fruit green. common at top of beach

5215 1 Polyssias grandbolia Volle.

common on flat and base of cliff:

at base of eliffer, and on steel sloper.)

5 53 Soulames amara orranional at top of beach 5 39 Excrecaria

one true seen on beach

5 55 Scaevola frutesiene (Mill.) Kr. at top of beach, abundant when base of cliffs.

& 56 Emphorbies hamissonis Biss. small colony at top of Beach

3 57 Polyprodium serlopendria common on flat also on Cimestone slopes

57 Clerodenkrum speciosissimum common interflat above beach

5 Et Pyrksia mununda common on treitmenter "mpnei" panish terminal
of two or of growler of
branches, sub notherled,
on a short thick, radii.

Leaver quay of reen.

-2 hout y m. talf; flower with fruit green. bushy tree with milley salt, said to be poisonous to strin, also said to to and as a purgation. In motor m. talf, flowers lavende.

white beneath.

- bolds erect.

- bolds erect.

- should 1.5 - v m tall,

malodorous; flowers.

- searlet, fruit green,

fruiting caly greet.

Ceave, leathery bendent.

1950 Palan

108

1950 Palan Unulethales 110 March 13 - around lake at base of small preninculo on in coast of a. w. perusula of Umbithapel thick rainforest on steep limestone slopes I some leaf epiphyter fronds like large green very thin fish scales. 3 1/67 Trichomane omphalode an evet tree trunks, abundan 68 Trichmanes on welling, nace. 19 antrophyum tree trunks very rare, only me but seen. 70 Hoya ? very common climbing in undergrowth. rosette fronds ascending. 11 asplenium midus I sove of different lengther on abundant on iveg & limeton different underduals. under trees clember, all seen were abundant on ground and sterily. rocks + log, at even mon hanging frontees 75 asplenium laserpiticifolium rare, in the in mangross sward stender should 4 m. tall, The I kora duffii in just above many our swamp florous scarlet: fruit green. relative sometally with 77 Bruging conjugate fourstand in much of

multhaper 115 1950 Halan 32190 Pleris Criparlita on rough limestons showly erect, untranched 91 Polyscies grandifolia Volh. racly seen in fruit 92 Randing cochinctunersis small tree; who fruit red. - vare in boest 94 Payshoting pale beneaty; fruit immalus. orcasimal in frest march 13 one of small islands north of southexest perinsula of Unullhapet undercut eliffs of Circuter gust above sen semi-reandent shul 95 acy rea flowers salmen, fingrant; common - full small, black. struly, bushy; leave 13 96 Gibbia palavensis glory, flowers while. common bushy shoul; fruit 97 Eugenia crange. common grandent strub leaves 98 Cappais condifiction glacies i fruit blechy occasional" - pyriform, ribbed. inequilar tree, banging 99 Intria bijuga over water; calyx green, standard "white "don't" the dan't

119 unubthaper 1950 Pacan 118 march , & north side west peninsula, near westerd limety aliffy yest at ove sea sem- searchest shoul scrambling in buil. flower white very 1 - 100 Mar. 13 - west penensula of Unulshafer V. -fragrant, 3 meroles. , 10a Peperomia on limestone cliffs May 18 small islund same as 10.114 small tree, sterile. 10 Pandanus dubins offreng. rale on cliff quest above sea south great peninsula of Unbethapel? around old cultured pearl station. A to as and flat above beach spreading tree, 4 m. tall, 11 Eugenia branches widely spreading at top of beach and drooping; fruit not quite rips, but eaten by natives at - This stage "nebotes". spreading tree 6 m. 12 tiens at try of beach 13 Eleusind indica (1.) quely. em mon on cleared sand - struct , m. tel, leaves 14 l'emphis acidula slightly acid and astringent growing on expressed when chewed; flowers white. mass of words of coronect -st in al sewhere or directly linely low plant seen in this

undelhapel 121 120 1950 Palan showly fruit green 32215 Celtis 16 acostichen aucum assending, arching 16 Emphereria hinta corn mon on cleared sand folat tuft, stoloniperous. Fost. 17 Leptures repens vas. subulatua common on sound at try of breach 18 Cyperus javanicus 19 rave, on old concrete platform small Trift. small tree 5 m. tall. flowers whitish, ripe fruit orange- yellow. nave in- Wishet on -wet sand near mangrove swamp ousher; flowers yellow. 5 no Vigna marina occasional is bush 1 21 Terminalia Litralisteen. bushy tree 5 m tall; florever white "esumia" at top of beach , or Terminalia catappa L. statching out across on beach, worts washed by sall water at high toda 23 Desmodium umbellatur base of eliff, top of beach

123 unithafiel 1950 Palan many same - small marque emall tree with 32 x 14 Heriting Cittoralis brigantal plant button swamp, and still root, at base. strile tree 10 m. Tall, small 25 1/ requiera conjugata propost and "knees" a few trees in water of swamp. small from - AN Mount Santa. emall frants, sterils. 2. 26 lierostichum arreum a few young plants at edge of swarn ndercut america same veliffes just above prostrate of according: e vy Hedystis albido punctata/Manjtod leaves sub- flithy; flowers white. ishrule; flowers 7 28 maera palauensis branging from a lift -white, immature fruit bound - green, rife mes transluced printich white. tangled vine. 29 alyxia common on eliffs veins conspicuously 30 Humata pellucid. on trep trunks on cliff vine-like, of lowers geninstama greenish. small showly flowers - white; fruit green. 33 many Eg sentstran (6.1 lerb. on cliff

125 crubsthafel 124 1950 Palan strub 32234 Soulanea umana 35 Poly podicyclopelin pingii princeles conaccous laticulate, doub green, Cilning walls at now come running house with ago. sam-steel rough limesting slopes about cliffs. dense rain-forest. at the 10 m. tall, ship-lile 36 Mammea odorata (Raf.) Kortenna growth habit, you no common in places the flower white evert alreadant tree lie am tall others 37 - nouse -larger, steril earning in freet stender about 4 m tall 78. Kandig cochinchinensis rife fruit bright red. occasional resettle of formals, Irollow 39 asplenium mohus in center, collects dead very common on leaves. wigh limestone. this orne creeping, 40 Polypodium frolds crowded. common on tree trunks (also seen on ground) occasional on nochs and he trunks

127 Koron 1950 Palan 126 march 20 - ngerebe ed. specimens brought in by native informant, alkay, thickets and broken old building sites, etc should, of lowers red. 32242 Hiliseus "tapioca carolinas 43 manihat esculenta hants "marians petioles green 44 Manihot exententy hants Introduced by Japanese. 45 Impatiens folowers white 46 Hippotrono Engifters 47 Baulinia monandia showly planted occasionally brought by Japanese 48 Cyperus alternifolius "ugal" flower red. 49 Eassalfinia pulchering (1)50. - reappe erect. so fansesic ig sportancon isabsab malun 51 Costus tract, it. 52 allamands cathaities v. henderson reandent clinity Howers bright gellow. -21 untaneous, com may in moist thicket caty white, coralla red. 53 Clevolendrum thomas "beob!" flowers people, 54 Vites fring place 55 Erythory Con cocq 56 antigonon Coptopus

129 Know 1950 - Palan 128 march 21 - small islay en) wa zama Bay cimestone cliff just about water. shrule; leaves turning 32457 Exerceanis agallocha red; later said to nance be very porsonou: expecially when mined with several other substance, in valior for action. Marchet, around drouse see p. 174. whitish, bud, buff. y 99 Psidium guajava eyme branches red. co fatrophy podagaeca Hoch. heresubsub uldiocq" 61. Manifrot exculents hands setioles funking "tibei" petioles carely purplish younggrowd hural diramege petistes barely 63 manchot esculents wants purpliet, young power 64 7 heretia peruviana int. Cypapianes. flower yellow. caracar' alaba'ab" 65 Coffee arabica Covers white. "tabaso" of Cowers punh U Nicotiano talacum "isubal" at petiole, 67 Manihot exculenta hang Is young growth, practically green

Kerer - ngarahabera 131 130 1950 Palan 37268 Jephyranthes roses "sangá(" 3 19 Leen plower dech was yours 8 70 group tophyllum pictum There in old temple grounds,
probably persisting from
frome forest. flowers white "tilol" leater yellow. March 23 - main road . north of ngerebe'ed flowers yellow. 6 72 Lesbani, comalina locally common along readride march 23 - seaplane ramp on north seds of ngå alaberery. prostrate lonated. seraped ground 5. 7) alysica pris flowers light brick abundant ground cover bred, turning almost black unsid, gray while outside. prostrate, closely matley; 74 Desmodium triflourn flower grufels. abundant ground cover erect; flower spiles jungels. 75 Chloris inplata COMMEN

ngarababesang 133 132 1950 Palan erest annual, up & 32276 Aczehynamine march 22 im. talf herbage purpling of cen flowers dull straw yellow. 12 prom thinly overcast often slope, beauthigh wet bull 78° dry 35.5°F on west side of island extensive liany, 77 aprending turpethum climbing over trees, common in thickets on elope, extensive Ciarra climbing 78 Canavalei cathartica Thomas over tree. common inthichets on slopes twining wint, flowers purple, beel rare in bushes at Ituristed. edger marsh 80 Fintlisty is Myschopan conjular in well ground interopales erect herb 81 deschy normana rare on wet roadrid erect, supported in deligran 82 Rynchospora conjubosa rane in edge of mush Langled very; flowers 89 ccitacy ternated deel blue with in middle abundant locally in broken places is! of banns. concrete amp est should acrost 2 m, tal, 84 Callicarps candicans flower light pringle, flat back of top of beach fruitituing purple. love clumps, entine 35 Dendrocalamos faberi Ridley a near det. McChine 5-15 cm. apart, 4 motal, Cumprion lower stope darli green, about 2- 2.5'em. of road cut thick, somewhat hispid

Mgarahaberang 135 1950 Palan 134 sprawling the my 32286 wad cut shrub several in. (with sprint trale grean, very bitter. creet, base inlarged and strongy; fruit trufter. in mud of march ne charges un w, 88 Cay ratio Vripolista - flowers gice with vicasima in thickely flower white. 99 Apathogothis rase in wet ground 90 Cyperis abundant in wet disturbed ground evert, supported, by 91 Friend umbellata other plants: terdiques. common in marsy herb up & 1 m. tall 92 Tephrosia flower purple in cente, common a road side fading toward, margin. small tree 4 mi tall 93 Trema nave, growing in some trother emorele-amp hert o.7 m. laly. 5 94 Desmodiren gangetium (1.) DC. rare, growing on broken concrete ramp. 94a D. heterocarpon van strig som v. Meenwen

Rod. roll is openselyper with landamin Lich 137 Palan 1950 136 march 27 - south stope of western peninsula tices as earthing among second growth. open sloper with grans a Gleidrenia, reathered Yandani, and shrubz, this 2 throng overland wellfull 80° dry 86°E. second growth woods with some large trees, especially along ravine. 32295 Ponteria tree 4 m. tal, gray- green, flower Janeen. common at edges of freet 96 Achizaca dicholoma occasion of on frest floor about 3 m. tall, ered; 97 Cury a japonies actasional on open formflowers white somewhat ill-scented. covered slope shoul a mital; leaver 5 98 dymplocos palacensis with slightly sweetist occasional on open fern covered taste; flower white. -scope. 99 Dimeria chloridi formis occasional in open slope very dark green 32300 Trichomanes javanium 01 Vitlain finest flon commor on ter-tunles pendent 02 Psilotum nudum rage on tree trumbs 13 Cyathen occasional in frest tree: trunk slender, 2m. - brigh, correld - with hollow scaly-leaf bases, Source forthered of my cong down hay of slift golden scolly finels a scending.

. ngaralsaberary 139 1990 Palan with rest, from de erect. 32304 At Prysptens corning in raving in forest of Lindsaya me of moist early wall of raving in fourt or Lindsaya rare in moist earthway of various in freet bonds according to rare on fruit floor 08 Androjogan brevifolius su. rail on stope beside invulet 09 helagirella common on ground in Thickets along revulet

1970 Palan 141 Kon March 24 - ngerche'ed -hul plowers purple 32310 Perior enistata "brak" spathe yellow Cy coopering chaminon. raised in marsher "Late kaln mbara" Cyviusperus merlus: (Eduati (Hessi) Solusti DMA1: who (us) 6/1998 Kod. Roll 13 - Mussaenda: young manggrove seedlings under old oner. march 24 - ngerbeledeson, near dock of babeldeson ferry belelianum tree 2.5 dm. 13 Campnosperma lowland forest in navine thick, 10 m. tall leaves glossy above, pales bounish benedl. Plandian "hotel" vine climbing in farest at edge of manging subamp. In intrees, fruits 15 Molastorna malabathricum common on small open hill of volcanic soil. "matakui" shrub vn. tall, flowers white, nose pupilis in center. "ngauldrutha" erect. plowers white. in open grassy field formerly enlinated, volcanii svil. "hldlelel" trailing ving 2 18 "inlt" woody vin, in mangone swamp, sterily tebest tree 6 m. tall, asial norts from rear 19 Khizophora mueronata mangrove swamp, in mud, your would have fallen from tree. seedlings abundant be

144 1950 Pulan your 145 32329 araucaia hoterophylla small tree ym, tall; sterile.
spreading tree 7 m. rall.
fruit, green, soft. ornamental, rare 30 Parinarios / congobosa occasional in sparse works 31 Timbristylis occasional, grassy roadily March v5 - ngleablobubed, old Japanese botanical garden site. small stands of lage introduced-trees surround. ed by seared growth thickets unbrancher true 5 m. tall, 32 Boerlag iodenthan pulchering petioles very long, native tree, common fruits glossy, dul in moist ravines marin ortin. and lower slopes. dense chumps 2 m. tall leaf streath, inhab, planted ited by amall black anti. dense a runded reterily -preanted - deflered. spreading tree with) flamanea saman -untrella-shaped crown. planted, several seen tall sterile tree 8 m. tall, 36 Heven basiliensis (HBK) M.-A planted, several sun - lactiferous. kamotal till branches hirizontal, 37 Ceiling pentanding . bruit delising and falling. commonly plante large spreading try, a planted, several see the sales said to be mating.

1950 Palan 147 Kern 32339 glochidian Dree 7 m. tall; flower in thrickets, native reddish, young fruit - pushel. " Comanonem gaylania. oth" large tree 3 dm thick, stelil, have and back - a milic large true, all leave, 41 Lamanea - aman young, flower finde. greanted trent in tall of lowers 42 Tephrosia white with pringle centers. vadside enouse spreading 43 Enterolobium cyclosafium tree, ferener white. stanted, two seen la ge tree, flowers 44 Cassing siamen yellow oder of broken commonly planted Gail unpleasant. 45 Aweitenia small plantation tall straight trees parts brown, forsaured. sterile (see # 523 46), fruit picked up from ground). 46 Lweitenia plantation fruits in ground, mostly writed or niddled by termiter. 47 fweitenia sometrees in mahogany Blantation tall tree, back oflating off in large gray- hour frates (phit regiment, possibly doesn't belong) large chump on tree trush tangled ving comering 49 Eygrdium salinfolium givering in Chichets, shrubs. mixed with he scandens "Journellas kummen and Licination "rigeola"

al anlupse'd 149 1950 Palan 148 March 26 - landlocked collected plants from boat in a small bay at s.e. corner of island lahewith a narrow surrounded by high outlet into the tray. Cimestone ridges and cliffer undelent, with steels stopes above them those very thickly vegetated. Som shrule occasional on clifts the foliage of any green; 51 Ponteria common in vegetation flowers grean stamens - opposite petale. show overhanging 50 allophyllus water bud white 5) Che de de Callicaga shoul plowers - white. occasional on cliff. large should buds occasional on cliffs shower fundant, fleshy, cream. color. rare on clifts formated of volcanic open regotation with governted of volcanic material, many species typical of volcanis places; with ruffaceous at water, edge mangroves in well at waters edge. in western arm of bay show 3-4 m. tall; 36. Ixona duffin flowers scarlet, fruit occasional or wells above guen on red comes. high tide. 97 Hedyotis eld, 12, tal; flowers pade lavender. common on level offen ground stocons. Toloiulabali 98 Eycopoolium connuem common or volcanic soil

aulufase 'al 151 1950 Palan 32359 Pleris funds crect. common in islanic soil should, on tall, flowers forming low langers melastoma malabathium occasional or wolennic soil 61 gleichenia tinearis ferrigina common, especially or steels sloper, on volcanic sig a rect, solitary occasional on flat volcanie 201 "bekulains" 63 Lycopodium phlegmais recasional oir sonall morrauskins or palm trushy C4 Checkanther tenuifolia or rare on volcaning soil "pusebas brunnen" 45 Lay grdium scanding albundant on volcanie soil burned aren. co Ischaemum forming share alrundant on volcanie stand, tulms procteate according at tips. 67 Rhynchospors rubia (Loui) Makiro bitter sweet; fruit green. 68 Lympleroz above shightid level 69 Pailotum caeshitory on base of treezement 70 antrophyrin on barrof tre tune -x-mi-cling & less 70 Pleating orientale 1-2. Copy Cears thich such they one, conge actic. "klowitel" common on steel alope

Babeldaos 159 Palar 1950 small cliff, about march 28 - tolongel Point, beach is of volcame Camplick malerial small beach of five sand, with mangiore in water thickel at Topof beach 32392 antroplyum epiphytic on old tree trust darligreen, g Cresy. 93 Vittaria epiplytic on old tree trunk 99 Polypodium Rhizofellery apriculata Bl. spreading tree, aerial root, even in shallow ivale, from small branches. fine sand bottom wordy liany. 96 Mucuna gigantes climbing in mengrover "kldelel" (: this leafed) inflorence prendent - from dol -wood scandent shrub 2 97 sear bent should rectumbe up & 1.5 m. tong; Julals greenich yellow molled inside with tronge; life fleshy whitish well purple frately breneath distally. small tree, flowers 98 guetlanda speciosa "pelan"

324066 Trichmanes omphaloder (Vid. 161. 1950 Palan 160 see below march 28 me'elembrel village, ngalpang along grath in village "herubuhu" in thicket Decaspermen futicous shrill, petals white, intlinet - Haven purple. herb rm, tal; flowers 2 01 Calathea common inthrichet white, lemon yellow destally. prostrate. Or Digitaria borbonica? common on hand early of path prostrate 5 03 mitracarpun common on the death, of path Mary 28 - Itan, first estuary south of me'ebe ubul thickets a base of elift beliend mangrove swamp shoul 2 m. tall; 04 Hedyotis edge of thicket in shade flowers white "holes" 05 acanthus ilecipolius in mangrove plat tidal, with pelbly bottom It flowering stems ceit; flower white, browning toward throat erect, flowers white. 06 aphionhings bank at ban of eliff, edge of mangiore sevany 07 Polypodium on vertical rock frag above stream straight, the I shaped mer great numbers of seedly about I in 5 of which without muchles is scave sid.

163 Babeldook 1950 Palan march 29 - Itan, first undergrowth is largely of Calathey and small estuary south of the ebe ubul grager many gerni, froad valley, with series of terraces, On upper levels tibissus in secondary forest. Miaseur is deminant this varies greatly Cocalpinia sp. is and Palme are abundant. att common thorny ving de necarpus Tal grogers form is occasional. Thicketh. Campro sperma is abundant Rod. roll 13 mangrove arrol and many Pan roll & swamp other wines are tangled and worded slope through every thing end of two rolls. Dambos thickets also abound (Bamburg vulgaris!). 32408 (teris or talus at fort of cliff, common ["isubsab" on talus and spring stems 1.5° m. 09 Costus Trenings on flat alluvum talf calys green to red, en damindo white. herbomitale, blower lather deriveret in undergrowth 10 Calathea -white, yellowish distally prostrate spiles eved. 12 Centothera lapparea common at edge of cleaning 11 Oplismanus culms ascending depressed 1) Inema in well early along trail low Tree, pedancles engling 20-80 cm; ling series red. 14 Discosaly 1

165 Babeldara 164 1950 Palay 32415 Lindeaya " climbing on tree trunk showl 1.5 m. tall, 16 codeaeum variegatum leaves green with small yellow spots. I mall try, leaver 17 Divelipros glory; fruit deels common - yellow when refer. small tree you tall, 18 aglaig flowers yellowish. to occasional in thickets tall palm 10m. tall. "the mailie 19 Exorrhiza who fruit and flowers in show they both white. 2 20 Hymenolel is carerabout in tel. - Cower pinking "sui" Sil common component of undergout, tall palm flowering spites of the pendent staminate flower 1 5 cm apax tearly cadus 4-8 m. tall, abrundant in second growth at low altitudes reflerescence pendent, abundant locally in flowers duly frinking 24 antrophyum contrectment and scandent shoul, 29 Freus fruits dark sol ty prophish. common on eliffe and in undergrowth in tales betil nut. liance, mostly Caralfinia, same - bill to south of trees mixed, Eugenea 4's " valley-covered by forest Cien na mornilm? etc. attle about 15 - rom. tall, wil facily good canopy ending rowth, Exerclise comment all

Babellast 166 1950 Palan 167 flower pale green 27 Carrhing common in freet -strathe tricked up on ground (to go with "32419) 2 tems decumbert at bay. abundant locally on steel, florivers cronze. terrestrial rare, on steel stoke, they soil. 30 asplenium common, terestrial croshed try, bud, only. 31 Divspyor Ciff, common eroshed try, leaver edge of eliff, commin -sillybe reath; fruit quee h. "lel'spea". try with smostly 33 Engenia pale bails; all seen steril. defining the intracts of 1 west from just south of me'el would to just south of island 1-2 mi. with the seaward slope is covered by thick mixed forest, the best so far scenon Avbeldast.

Baleldast 171 1950 alan March 30 - Itan (200 162) " map" tree overhanging more along channel of estuary leaves said to have been used by fapanese to make sheletonized leaves as used as decorations. small unbranched 35 Breilagiodendin im. tru a shoul & m. tal. common on low terraces flowers yellow. just above level of theyone short, evert. mangrove swamp 36 lectaria 4-12. common in dell secondgrowth words in ravines. orman in deep second-growth woods in navines Migrong low, globular stipes thinly covered with black scales (this scaliness somewhat variable from plant to plant, tissure of stipes repurple when cut); pinnules fairly uniform in size but much 2 maller on immalure "Islants. "tharamarum" 38 Denis elliptica common at baise of cliff dub ving, prostrate on ground; leaves glancous beneath sterile.

Babeldaot 173 172 1950 Palan march 30 - "Me'ele woul thickets and cleaned land fronds twening in 32439 Lygodium circinatum "ngede" fertil distally. common in thickets 'mjengei' emall 5 m, 40 Volyscias grandifolia Volls. shirt, flower green. algoof thicket 3 m vot, que, blewer 41 Jacniophyllum greanish yellow, fruit grean. , on branch of tree wary, spreading by 100 42 Pastralum vaginalum thezernes. berming lown on what of coral rubble. unhealthy liveling; buds only. 4 -2 43 Eugenia in clearing just above beach March 30 - Ngeremetengel in village 44 Cayratia tripoliata in low brush near what vino, flower, green. Perdall' deels truble beneats; planted as arramental flowers white. beneath, "tortiet" rtertied 46 Peperimia pellucida on bas wells near stream 47 Digitaria pruviers var minobachne on bare ground 48 Aprobolus diardes common about paths heads white "escerardin" 49 Cypenis Byllingia Earnon in grass tree 10 m. tall, branches 90 Camprosperma Previpetiolata drooping Ceaves yellowoccasional in navines green beneath, flowers beleleum"

Babeldash 1750 Kalan. 176 evert, 0.8 m. call, leave stiff. 32963 Phyllanthus paleunice Host 4 64 7-rema Guit black, wife one plant yeen in depression -in mired and 66 Dimeria chloridifamio common on mined area yellow thread. 67 Carrythy rectarional on miredaren, parasitic on grass

Frest at Kagman RY.

Les B 0.5 m. from ground

100 in open under front

W 78.5 B 86°

W " in taller frest

When beneath W. 74.5° D 82°

man. 18 shore of frond the on Unitethopel

11 am. in front surface of

ported 0.3 m. from surface of

ported, 0.3 m. from water

w.78.5°, D80

same, 7-4 m. from water

breast brigh from rocks

(2 readings) W. 78 D79.5°

aprila Merebe ed, Koron 11:30 a.m. sun, st. overcast 2 ft. from ground in open U.80 0865 same, thin shade W. 79.5 P84.5 same, complete shad If open sided galanged un roomed shelter W.79 D85 same, complete shade vegetation W. 80035:5" growne complete and of vegetation shellend to pen, W. St. J. D. 84. in concerto building with wdons upen - Pt - tron floor center W/ wor 2000 083.5

open, 16 ft above ground

ground in hard turk & 325 D 88.5

ground under regetation

alout to thirded side of

alout to thirded side of

on hard turk in your 685 D 91.5

full sun a ft from

ground in open W925 D 92

186 La MHydrometer Pond at Muhthapel Mar 18 80°F 1.016 187

193 Palan Peter Hill collection 192 .



